

**TEST REPORT**  
**ROOF MOISTURE SURVEY**  
**Test Protocol TAS 126-95**  
**Florida Building Code 2014**

Date: **April 15, 2016**

ACRC #: **16-0172 MSELD**

Pages: **1 - 5**

Report Prepared For:  
**Advanced Roofing**  
**1950 NW 22nd Street**  
**Ft. Lauderdale, FL**

Project Name: **Palm Beach Shores Condo.**

Address: **33 S. Ocean Avenue**

City / State: **Palm Beach Shores, FL**

Deck: **East Lower Deck**

**TESTING LABORATORY**



**Atlantic & Caribbean Roof Consulting**  
**TESTING & ENGINEERING SERVICES**

**1839 NW 29<sup>th</sup> Street**  
**Oakland Park, FL 33311**

**MIAMI-DADE TESTING LABORATORY**  
**CERTIFICATION #15-0224.01**

**PHONE: (954) 742-9515**  
**FAX: (954) 742-9513**  
**EMAIL: ESMAUSE@ROOFCONSULTANT.NET**

**FLORIDA ENGINEERING FIRM**  
**CERTIFICATE OF AUTHORIZATION #9036**

**TAS 126**  
**BUILDING/ROOF SYSTEM INFORMATION**

ACRC #: **16-0172 MSEL**

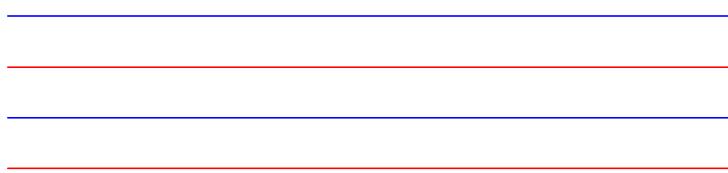
Page: **2**

**DECK:** New  Existing  **X**

**DECK MATERIAL:** Steel  LWC  Concrete  **X**

Wood  CWF / Tectum  Gypsum  Other: \_\_\_\_\_

**ROOF COMPONENTS:**



**Surface: BUR with Gravel**

**Attachment: Asphalt**

**Multiple Plies**

**Attachment: Asphalt**



**Perlite**

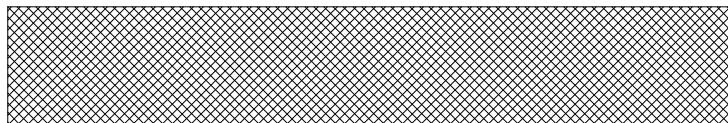
**Attachment: Asphalt**

**BUR with Gravel**

**Attachment: Asphalt**

**Multiple Plies**

**Attachment: Asphalt**



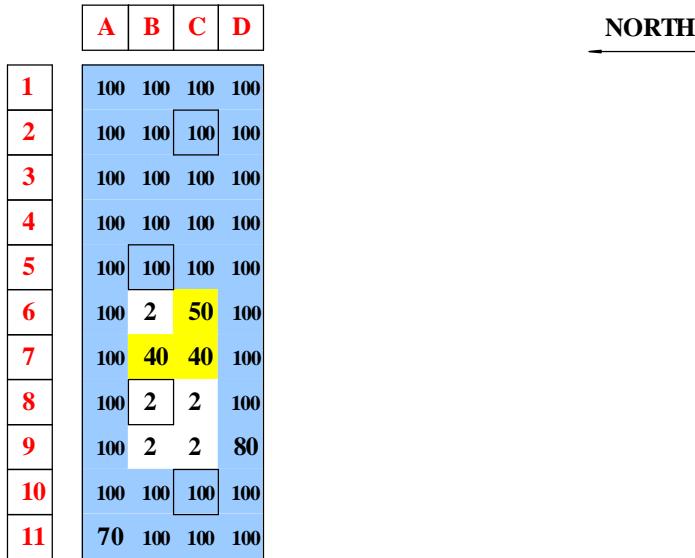
**Deck: Concrete**

TAS-126  
GRAPHIC MOISTURE PLOT

ACRC #: **16-0172 MSELD**

Page: **3**

The Graphic Moisture Plot, based on % of moisture by weight, is produced from Calibrated Impedance Readings and spot readings of individual roof components with a Leak Seeker and Visual Observations.



**KEY**

# Impedance Readings  
( 1 is Dry & 100 is Wet )

# Core Location

Dry - Less than 5% in the membrane or less than 8% in the insulation  
- Highest acceptable moisture per protocol

Low Moisture, up to 20% Moisture by weight

Medium Moisture, 22% to 50%

High Moisture, over 52%

Grid 10' x 10'  
1st reading starts 2' from the perimeter edge

**TAS-126**  
**MOISTURE SURVEY**

ACRC #: **16-0172 MSELD**

Page: **5**

**SCOPE**

- A non-destructive procedure to test for the presence of moisture in roof system assemblies.
- Subsequence destructive core sampling and laboratory testing performed to determine moisture content by weight and calibrate the Impedance Readings.
- The moisture grid measurements may vary slightly along the building edges and should not be used to determine the exact dimensions of the roof area.
- Moisture contents over 5% in the roofing membrane, and over 8% in the insulation are considered not suitable to roof over, per the Florida Building Code, Section 1521.12.
- This test has been conducted in accordance with TAS-126 of the test protocols for the High velocity Hurricane Zone of the 2014 Florida Building Code.

**CONCLUSION**

**Over 25% of the roof area was found to have unacceptable levels of moisture. Per Section 611.1.1 of the Florida Building Code, High Velocity Hurricane Zone; this roof will need to be removed.**

**APPROVED LABORATORY ENGINEER**

**Randall Fowler, P.E.**  
**No. 51156**  
**Engineer**

**TEST REPORT**  
**ROOF MOISTURE SURVEY**  
**Test Protocol TAS 126-95**  
**Florida Building Code 2014**

Date: **April 14, 2016**

ACRC #: **16-0172 MSM**

Pages: **1 - 5**

Report Prepared For:  
**Advanced Roofing**  
**1950 NW 22nd Street**  
**Ft. Lauderdale, FL**

Project Name: **Palm Beach Shores Condo.**

Address: **33 South Beach Shores**

City / State: **Riviera Beach, FL**

Deck: **Main**

**TESTING LABORATORY**



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**TESTING & ENGINEERING SERVICES**

**1839 NW 29<sup>th</sup> Street**  
**Oakland Park, FL 33311**

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**CERTIFICATE OF AUTHORIZATION #9036**

**TAS 126**  
**BUILDING/ROOF SYSTEM INFORMATION**

ACRC #: **16-0172 MSM**

Page: **2**

**DECK:** New  Existing  **X**

**DECK MATERIAL:** Steel  **X** LWC  Concrete   
Wood  CWF / Tectum  Gypsum  Other: \_\_\_\_\_

**ROOF COMPONENTS:**

Surface: Granulated BUR

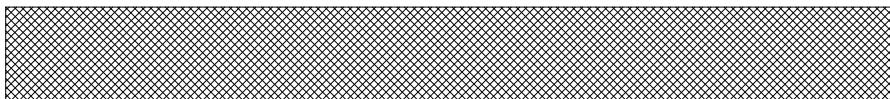
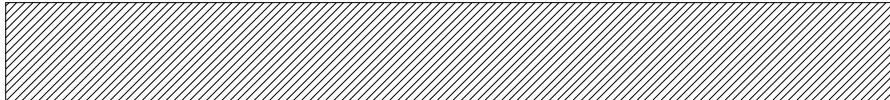
Attachment: Asphalt

Multiple Plies

Attachment: Asphalt

Base Sheet

Attachment: Mechanically Fastened

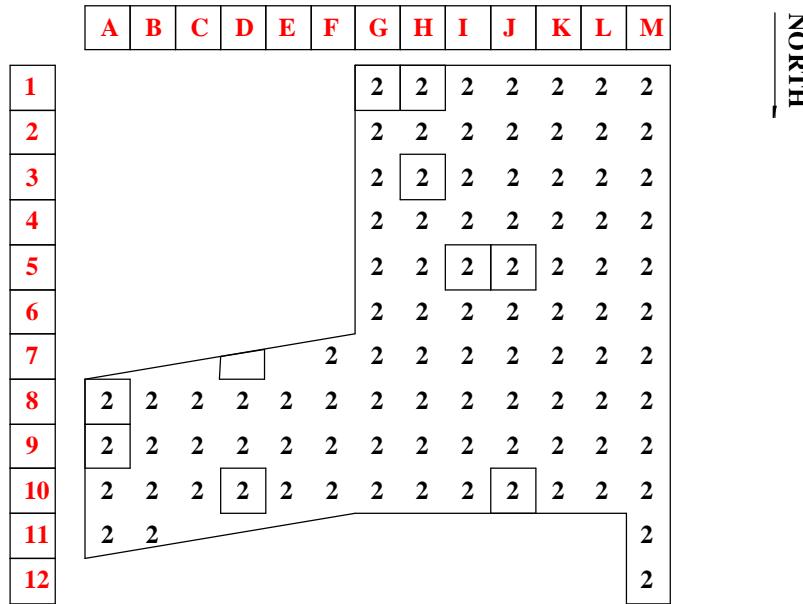


TAS-126  
GRAPHIC MOISTURE PLOT

ACRC #: 16-0172 MSM

Page: 3

The Graphic Moisture Plot, based on % of moisture by weight, is produced from Calibrated Impedance Readings and spot readings of individual roof components with a Leak Seeker and Visual Observations.



**KEY**

- # Impedance Readings  
( 1 is Dry & 100 is Wet )
- # Core Location
- Dry - Less than 5% in the membrane or less than 8% in the insulation  
- Highest acceptable moisture per protocol
- Low Moisture, up to 20% Moisture by weight
- Medium Moisture, 22% to 50%
- High Moisture, over 52%

Grid 10' x 10'  
1st reading starts 2' from the perimeter edge

**TAS-126**  
**MOISTURE SURVEY**

ACRC #: **16-0172 MSM**

Page: **5**

**SCOPE**

- A non-destructive procedure to test for the presence of moisture in roof system assemblies.
- Subsequence destructive core sampling and laboratory testing performed to determine moisture content by weight and calibrate the Impedance Readings.
- The moisture grid measurements may vary slightly along the building edges and should not be used to determine the exact dimensions of the roof area.
- Moisture contents over 5% in the roofing membrane, and over 8% in the insulation are considered not suitable to roof over, per the Florida Building Code, Section 1521.12.
- This test has been conducted in accordance with TAS-126 of the test protocols for the High velocity Hurricane Zone of the 2014 Florida Building Code.

**CONCLUSION**

**The roof is within acceptable moisture ranges and is suitable to re-roof or recover.**

**APPROVED LABORATORY ENGINEER**

**Randall Fowler, P.E.**  
**No. 51156**  
**Engineer**

**TEST REPORT**  
**ROOF MOISTURE SURVEY**  
**Test Protocol TAS 126-95**  
**Florida Building Code 2014**

Date: **April 15, 2016**

ACRC #: **16-0172 MSNLD**

Pages: **1 - 5**

Report Prepared For:  
**Advanced Roofing**  
**1950 NW 22nd Street**  
**Ft. Lauderdale, FL**

Project Name: **Palm Beach Shores Condo.**

Address: **33 South Ocean Avenue**

City / State: **Palm Beach Shores, FL**

Deck: **North Lower Deck**

**TESTING LABORATORY**



**Atlantic & Caribbean Roof Consulting**  
**TESTING & ENGINEERING SERVICES**

**1839 NW 29<sup>th</sup> Street**  
**Oakland Park, FL 33311**

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**FLORIDA ENGINEERING FIRM**  
**CERTIFICATE OF AUTHORIZATION #9036**

# **TAS 126**

## **BUILDING/ROOF SYSTEM INFORMATION**

ACRC #: **16-0172 MSNLD**

Page: 2

**DECK:** New  Existing  X

**DECK MATERIAL:** Steel  LWC  Concrete  X  
Wood  CWF / Tectum  Gypsum  Other: \_\_\_\_\_

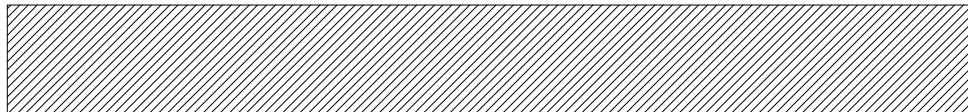
## ROOF COMPONENTS:

## Surface: Granulated BUR

## Attachment: Asphalt

## Multiple Plies

## Attachment: Asphalt



## Perlite

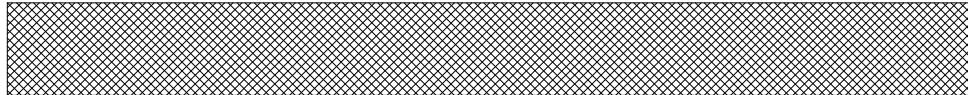
## Attachment: Asphalt

## BUR with Gravel

## Attachment: Asphalt

## Multiple Plies

## Attachment: Asphalt



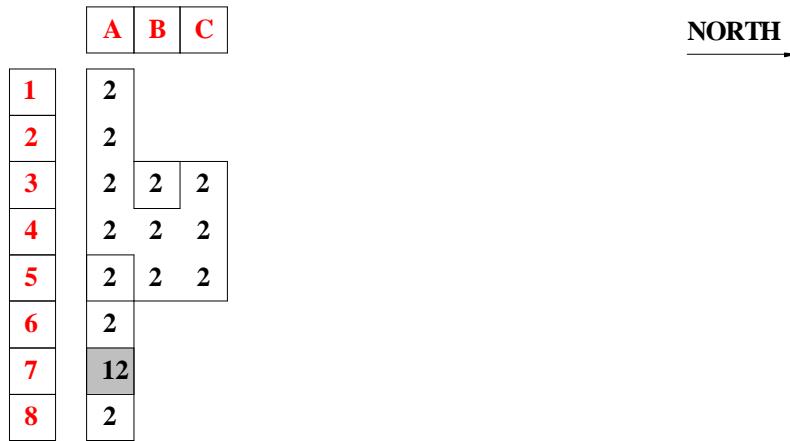
## Deck: Concrete

TAS-126  
GRAPHIC MOISTURE PLOT

ACRC #: **16-0172 MSNLD**

Page: **3**

The Graphic Moisture Plot, based on % of moisture by weight, is produced from Calibrated Impedance Readings and spot readings of individual roof components with a Leak Seeker and Visual Observations.



**KEY**

**#** Impedance Readings  
( 1 is Dry & 100 is Wet )

**#** Core Location

Dry - Less than 5% in the membrane or less than 8% in the insulation  
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Low Moisture, up to 20% Moisture by weight

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High Moisture, over 52%

Grid 5' x 5'  
1st reading starts 2' from the perimeter edge

**TAS-126**  
**MOISTURE SURVEY**

ACRC #: **16-0172 MSNLD**

Page: **5**

**SCOPE**

- A non-destructive procedure to test for the presence of moisture in roof system assemblies.
- Subsequence destructive core sampling and laboratory testing performed to determine moisture content by weight and calibrate the Impedance Readings.
- The moisture grid measurements may vary slightly along the building edges and should not be used to determine the exact dimensions of the roof area.
- Moisture contents over 5% in the roofing membrane, and over 8% in the insulation are considered not suitable to roof over, per the Florida Building Code, Section 1521.12.
- This test has been conducted in accordance with TAS-126 of the test protocols for the High velocity Hurricane Zone of the 2014 Florida Building Code.

**CONCLUSION**

**The majority of this roof system is within the acceptable range of moisture content. Small areas, (approximately twenty-five (25) square feet), are in the unacceptable range and will need to be removed.**

**APPROVED LABORATORY ENGINEER**

**Randall Fowler, P.E.**  
**No. 51156**  
**Engineer**

**TEST REPORT**  
**ROOF MOISTURE SURVEY**  
**Test Protocol TAS 126-95**  
**Florida Building Code 2014**

Date: **April 18, 2016**

ACRC #: **16-0172 MSWLD**

Pages: **1 - 5**

Report Prepared For:  
**Advanced Roofing**  
**1950 NW 22nd Street**  
**Ft. Lauderdale, FL**

Project Name: **Palm Beach Shores Condo.**

Address: **33 S. Ocean Avenue**

City / State: **Palm Beach Shores, FL**

Deck: **West Lower Deck**

**TESTING LABORATORY**



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**TESTING & ENGINEERING SERVICES**

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**Oakland Park, FL 33311**

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**MIAMI-DADE TESTING LABORATORY**  
**CERTIFICATION #15-0224.01**

**FLORIDA ENGINEERING FIRM**  
**CERTIFICATE OF AUTHORIZATION #9036**

# **TAS 126**

## **BUILDING/ROOF SYSTEM INFORMATION**

ACRC #: **16-0172 MSWLD**

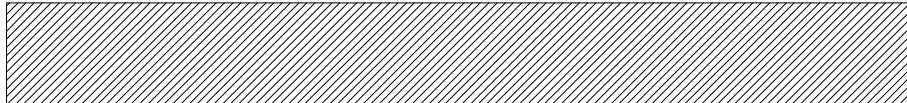
Page: 2

**DECK:** New  Existing  X

**DECK MATERIAL:** Steel  LWC  Concrete  X  
Wood  CWF / Tectum  Gypsum  Other: \_\_\_\_\_

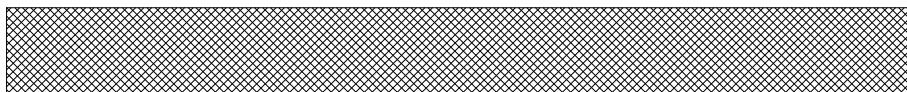
## ROOF COMPONENTS:

Surface: Granulated BUR
Attachment: Asphalt
Multiple Plies
Attachment: Asphalt



## Perlite

Attachment: Asphalt
BUR with Gravel
Attachment: Asphalt
Multiple Plies
Attachment: Asphalt



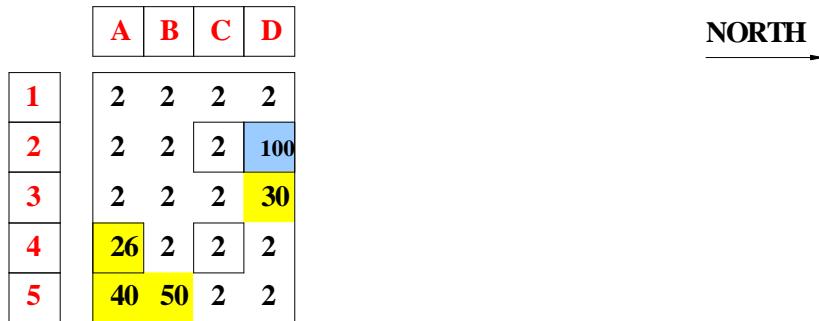
## Deck: Concrete

TAS-126  
GRAPHIC MOISTURE PLOT

ACRC #: **16-0172 MSWLD**

Page: **3**

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High Moisture, over 52%

Grid 10' x 10'  
1st reading starts 2' from the perimeter edge

**TAS-126**  
**MOISTURE SURVEY**

ACRC #: **16-0172 MSWLD**

Page: **5**

**SCOPE**

- A non-destructive procedure to test for the presence of moisture in roof system assemblies.
- Subsequence destructive core sampling and laboratory testing performed to determine moisture content by weight and calibrate the Impedance Readings.
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- Moisture contents over 5% in the roofing membrane, and over 8% in the insulation are considered not suitable to roof over, per the Florida Building Code, Section 1521.12.
- This test has been conducted in accordance with TAS-126 of the test protocols for the High velocity Hurricane Zone of the 2014 Florida Building Code.

**CONCLUSION**

**Twenty Five percent of the roof area (approximately 500 sq. ft.) contains unacceptable levels of moisture trapped within the roof system. Current Code requires the entire roof to be replaced if over 25 % of the roof contains unacceptable levels of moisture.**

**APPROVED LABORATORY ENGINEER**

**Randall Fowler, P.E.**  
**No. 51156**  
**Engineer**

**TEST REPORT**  
**ROOF MOISTURE SURVEY**  
**Test Protocol TAS 126-95**  
**Florida Building Code 2014**

Date: **April 15, 2016**

ACRC #: **16-0172 MSSLD**

Pages: **1 - 5**

Report Prepared For:  
**Advanced Roofing**  
**1950 NW 22nd Street**  
**Ft. Lauderdale, FL**

Project Name: **Palm Beach Shores Condo.**

Address: **33 S. Ocean Avenue**

City / State: **Palm Beach Shores, FL**

Deck: **South Lower Deck**

**TESTING LABORATORY**



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**Oakland Park, FL 33311**

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**TAS 126**  
**BUILDING/ROOF SYSTEM INFORMATION**

ACRC #: **16-0172 MSSLD**

Page: **2**

**DECK:** New  Existing  **X**

**DECK MATERIAL:** Steel  LWC  Concrete  **X**

Wood  CWF / Tectum  Gypsum  Other: \_\_\_\_\_

**ROOF COMPONENTS:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

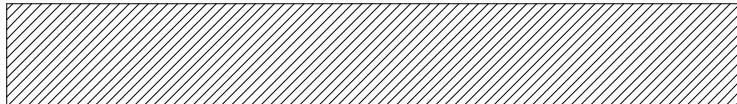
\_\_\_\_\_

**Surface: BUR with Gravel**

**Attachment: Asphalt**

**Multiple Plies**

**Attachment: Asphalt**

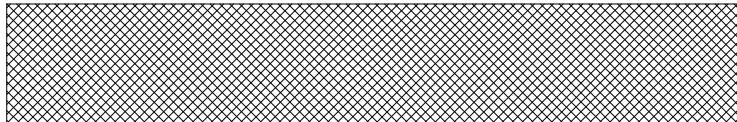


**Perlite**

**Attachment: Asphalt**

**BUR with Gravel**

**Attachment: Asphalt**



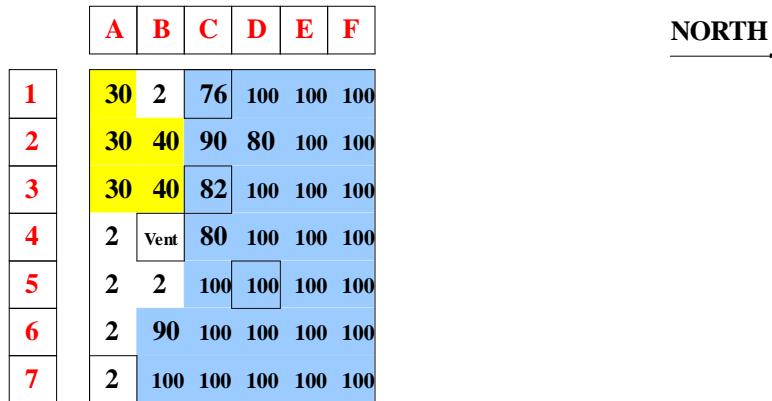
**Deck: Concrete**

TAS-126  
GRAPHIC MOISTURE PLOT

ACRC #: **16-0172 MSSLD**

Page: **3**

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High Moisture, over 52%

**Grid 5' x 5'**  
1st reading starts 2' from the perimeter edge

**TAS-126**  
**MOISTURE SURVEY**

ACRC #: **16-0172 MSSLD**

Page: **5**

**SCOPE**

- A non-destructive procedure to test for the presence of moisture in roof system assemblies.
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- This test has been conducted in accordance with TAS-126 of the test protocols for the High velocity Hurricane Zone of the 2014 Florida Building Code.

**CONCLUSION**

**Over 25% of the roof area was found to have unacceptable levels of moisture. Per Section 611.1.1 of the Florida Building Code, High Velocity Hurricane Zone; this roof will need to be removed.**

**APPROVED LABORATORY ENGINEER**

**Randall Fowler, P.E.**  
**No. 51156**  
**Engineer**